

Title (en)

GAS-INSULATED SWITCHGEAR HAVING A COOLING SYSTEM USING SPRAY, AND METHOD OF COOLING

Title (de)

GASISOLIERTE SCHALTANLAGE MIT EINEM KÜHLSYSTEM MITTELS SPRÜHUNG UND VERFAHREN ZUR KÜHLUNG

Title (fr)

APPAREILLAGE DE COMMUTATION À ISOLATION GAZEUSE COMPORTANT UN SYSTÈME DE REFOUILLISSEMENT PAR PULVÉRISATION ET PROCÉDÉ DE REFOUILLISSEMENT

Publication

**EP 3588713 A1 20200101 (EN)**

Application

**EP 18180883 A 20180629**

Priority

EP 18180883 A 20180629

Abstract (en)

A gas-insulated switchgear is disclosed. The gas-insulated switchgear comprises: a housing (2) defining a housing volume (4) for holding a dielectric insulation gas, a conductor arrangement (10) arranged within the housing volume (4) and comprising a conductor section (12) to be cooled, a cooling system (20) for cooling the conductor section (12), the cooling system (20) comprising a spray generator (22) for generating a spray (30) directed at the conductor section (12), the spray (30) comprising liquid droplets of a cooling fluid suspended in the dielectric insulation gas, wherein the dielectric insulation gas is configured to be in a gaseous form at operating temperatures of -30°C and above, and wherein the cooling fluid is configured to have a boiling point of more than 70°C.

IPC 8 full level

**H02G 5/10** (2006.01)

CPC (source: EP)

**H02B 1/56** (2013.01); **H02G 5/10** (2013.01)

Citation (applicant)

- EP 2443632 A1 20120425 - ABB TECHNOLOGY AG [CH]
- US 8704095 B2 20140422 - CLAESSENS MAX-STEFFEN [CH], et al

Citation (search report)

- [I] US 2561738 A 19510724 - HILL CHARLES F
- [A] US 2017198186 A1 20170713 - BULINSKI MICHAEL J [US], et al
- [A] GB 1099366 A 19680117 - MARSTON EXCELSIOR LTD

Designated contracting state (EPC)

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Designated extension state (EPC)

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